

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EX	AMINING AUTHORITY	•		
To: JOHN P. WHITE COPPER & DUNHAM LLP 1185 AVENUE OF AMERICAS			PCT	
NEW YORK, NEW YORK 100	36	· ·	WRITTEN OPINION	
1	SEP - 6 2001		(PCT Rule 66)	
1 To		Reply	to Whitten Oping : 9/3	
	AFT. 2. 17 T. 2.	Date of Mailing (day/month/year)	31 AUG 2001	
Applicant's or agent's file reference		REPLY DUE	within ONE months rom the above date of mailing	
International application No.	International filing date		Priority date (day/month/year)	
PCT/US00/15621	07 JUNE 2000		√07 JUNE 1999	
International Patent Classification (IPC) Please See Supplemental Sheet. Applicant THE TRUSTEES OF COLUMBIA L		·		
IV Lack of unity of invertor X Reasoned statement uncitations and explanati VI Certain documents cite VII X Certain defects in the	opinion with regard to notion der Rule 66.2(a)(ii) with one supporting such state ed international application n the international applic	ovelty, inventive step a regard to novelty, i	p or industrial applicability nventive step or industrial applicability;	
How? By submitting a writte	See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension., see Rule 66.2(d). By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.			
Also For an additional opportion For the examiner's object.	ortunity to submit amendaligation to consider ameraunication with the examination preliminary examination	ments, see Rule 66.4 adments and/or arguiner, see Rule 66.6. a report will he estab	4. ments, see Rule 66.4 bis. lished on the basis of this opinion.	
ame and mailing address of the IPEA/US		Authorized officer		
Commissioner of Patents and Trademark Box PCT Washington, D.C. 2023 I	s .	JANET M. KERI	TERRY J. DEY PARALEGAL SPECIALIST	
acsimile No. (703) 305-3230	l m	elephone No.	STANKLYIGY CENTER 1600	

International application No.

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1.	Da	isis of the opin	ion					
1. '	With	regard to the eler	nents of the internal	tional application:*				
-	x	the internation	al application as	originally filed				
ļ		the description						
	X	pages			on originally filed			
			NONE		, as originally filed			
		pages		, filed with the letter of	, filed with the demand			
		pages	NONE	, filed with the letter of _				
ſ	7.7	the claims:						
L	X	pages	87-104		, as originally filed			
		pages	NONE	, as amended (together wit				
		pages	NONE		, filed with the demand			
		pages		, filed with the letter of				
		Pages						
ſ	x	the drawings:						
l	<u> </u>	pages	1-29		as originally filed			
		pages	NONE		, as originally filed, filed with the demand			
		pages	NONE	, filed with the letter of				
		pages		, mod with the letter of				
1	x	the sequence li	sting part of the d	escription:				
ł		pages		P	as originally filed			
		nages	NONE					
		pages	NONE	, filed with the letter of	, mod with the demand			
[[With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:							
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:							
ı		contained in th	e international ap	oplication in printed form.				
		filed together v	vith the internation	onal application in computer readable form	m			
j	Ħ	furnished subse	quently to this A	uthority in written form.				
Ì	\equiv	furnished subse	quently to this A	uthority in computer readable form.				
į		The statement the international app	nat the subsequent plication as filed h	ly furnished written sequence listing does n as been furnished.	ot go beyond the disclosure in the			
	The statement that the information recorded in computer readable form is identical to the writen sequence listing has been furnished.							
ا ۸	4. X The amendments have resulted in the cancellation of:							
4.1	X the description, pages NONE							
		□		NONE				
			s, Nos.	NONE				
		X the drawi	ngs, sheets /fig _	NONE				
5.		•		some of) the amendments had not been made, ndicated in the Supplemental Box (Rule 70.2(c				
	-	acement sheets whi is opinion as "origi		hed to the receiving Office in response to an invi	tation under Article 14 are referred to			





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ш.	N	n-establishment of opinion with regard t novelty, inventive step and industrial applicability	
1. Tl	he quad	uestions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be trially applicable have not been and will not be examined in respect of:	
]	the entire international application.	
[3	3	claims Nos. <u>5-7, 12, 15, 26-28, 32, 33, 35-37, 39-48, 50-137</u>	
		because:	
		the said international application, or the said claim Nos. relate to the following subject matter which does not require international preliminary examination (specify).	
		*	
	তা	the description, claims or drawings (indicate particular elements below) or said claims Nos. 5-7, 35-37 and 3	9 are
L	X]	so	<u> </u>
T	Clain bese	as 5-7, 35-37 and 39 are dependent claims not drafted in accordance with the second and third sentences of Rule 6.4(a). claims were inadvertantly included in the Lack of Unity made in Chapter I.	
•	nese	Claims were indicated in the Land of California and I am I a	
			į
	X	the claims, or said claims Nos. (See Attached) are so inadequately supported by the description that no meaningful opinion could be formed.	
	X	no international search report has been established for said claims Nos. (See Attached).	
2. A	wri	tten opinion cannot be drawn due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard ded for in Annex C of the Administrative Instructions:	
		the written form has not been furnished or does not comply with the standard.	
	x	the computer readable form has not been furnished or does not comply with the standard.	

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V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
statement						
Novelty (N)	Claims	(Please See supplemental sheet)	YES			
Troversy (c.y)	Claims	(Please See supplemental sheet)	NO			
Inventive Step (IS)	Claims	(Please See supplemental sheet)	YES			
	Claims	(Please See supplemental sheet)	NO			
Industrial Applicability (IA)	Claims	(Please See supplemental sheet)	YES			
	Claims	(Please See supplemental sheet)	NO			
Claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, and 49 lack novelty under PCT Article 33(2) as being anticipated by Khursigara et al. Khursigara et al. teach an isolated nucleic acid molecule encoding a polypeptide capable of binding with a p75NTR receptor (TRAP6), a vector comprising the nucleic acid molecule, a host cell comprising the vector, and method of making and isolating the polypeptide from a host cell culture, and the purified polypeptide. The nucleic acid molecule will necessarily bind to the nucleic acid molecule of Iwane et al.						
	statement Novelty (N) Inventive Step (IS) Industrial Applicability (IA) citations and explanations Claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35 et al. Iwane et al. teach an isolated nucleic acid mol recombinant human nerve growth factor), a vermethod of making and isolating the polypeptide will necessarily bind to the nucleic acid molecular of the company of the company of the company of the company of the nucleic acid molecular acid molecular acid molecular acid molecular acid the polypeptide from a host cell culture, and the nucleic acid molecular acid sequence, vector encoding the sequence acid sequence, vector encoding the sequence acid are useful in studying ligand-p75.	statement Novelty (N) Claims Inventive Step (IS) Claims Claims Claims Claims Industrial Applicability (IA) Claims Cl	statement Novelty (N) Claims (Please See supplemental sheet) Claims (Please See supplemental sheet) Inventive Step (IS) Claims (Please See supplemental sheet) Claims Claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, and 49 lack novelty under PCT Article 33(2) as being an et al. Iwane et al. teach an isolated nucleic acid molecule encoding a polypeptide capable of binding with a p751 recombinant human nerve growth factor), a vector comprising the nucleic acid molecule, a host cell comprising method of making and isolating the polypeptide from a host cell culture, and the purified polypeptide. The nuclil necessarily bind to the nucleic acid molecule of Iwane et al. Claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, and 49 lack novelty under PCT Article 33(2) as be Khursigara et al. Khursigara et al. teach an isolated nucleic acid molecule encoding a polypeptide capable of binding with a (TRAF6), a vector comprising the nucleic acid molecule, a host cell comprising the vector, and method of m the polypeptide from a host cell culture, and the purified polypeptide. The nucleic acid molecule will necessarily bind to the nucleic acid molecule, a host cell comprising the vector, and method of m the polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypeptide capable of binding with a propagation of the polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypeptide from a host cell culture, and the purified polypept			

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VII. Certain defects in	the international applica	ation			
The following defects in the form or contents of the international application have been noted:					
The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof: the description contains nucleic acid and amino acid sequences which are not identified by a SEQ ID NO.					
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VIII. Certain observations on the international application

The following observations on the claims of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The description is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 5 because it fails to contain an adequate written description of isolated nucleic acid sequences and amino acid sequences encoding polypeptides capble of binding with a p75NTR receptor. The description is inadequate because: the description does not provide sufficient information with respect to all of the possible nucleic acid sequences and amino acid sequences embraced by the claims.

Claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, and 49 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because practice of the claimed invention is not adequately described in writing, as required under PCT Rule 5.1(a)(iii), for the reasons set forth in the immediately preceding paragraph.

The description is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 5 because it fails to adequately enable practice of the claimed invention because: the description does not provide sufficient guidance to make all of the nucleic acid sequences and amino acid sequences embraced by the claims.

Claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, and 49 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because practice of the claimed invention is not enabled as required under PCT Rule 5.1(a) for the reasons set forth in the immediately preceding paragraph.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): A61K 38/00; C07H 21/02, 21/04; C07K 14/00; C12N 5/00, 5/06, 5/10, 15/00, 15/09, 15/11, 15/12, 15/63 and US Cl.: 435/69.1, 70.1, 320.1, 325, 455; 514/2; 530/350; 536/23.1, 23.5, 24.1

III. NON-ESTABLISHMENT OF OPINION:

Claim numbers 12, 15, 32, 33, 36, 37, 53, 54 are so inadequately supported by the description that no meaningful opinion could be formed.

No international search report has been established for claim numbers 26-28, 39-48, 50-52, 55-137.

V. 1. REASONED STATEMENTS:

The opinion as to Novelty was positive (YES) with respect to claims NONE.

The opinion as to Novelty was negative (NO) with respect to claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, 49.

The opinion as to Inventive Step was positive (YES) with respect to claims NONE.

The opinion as to Inventive Step was negative (NO) with respect to claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, 49.

The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-5, 8-11, 13, 14, 16-25, 29-31, 34, 35, 38, 49.

The opinion as to Industrial Applicability was negative (NO) with respect to claims NONE.